

Manual No. 513588R1 Nov. 2004

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OWNER'S MANUAL FOR MODEL OPTIMA - STOELTING SOFT SERVE COUNTER MODEL GRAVITY FREEZER

This manual provides basic information about the freezer. Instructions and suggestions are given covering its operation and care.

The illustrations and specifications are not binding in detail. We reserve the right to make changes to the freezer without notice, and without incurring any obligation to modify or provide new parts for freezers built prior to date of change.

DO NOT ATTEMPT to operate the freezer until instructions and safety precautions in this manual are read completely and are thoroughly understood. If problems develop or questions arise in connection with installation, operation or servicing of the freezer, contact the company at the following location.

STOELTING, LLC 502 Hwy 67

Kiel, WI 53042-1600 Fax: 920-894-7029

Tele: 920-894-2293

TABLE OF CONTENTS

SE	ECTION D	ESCRIPTION	PAGE
1.	INTRODUCTION		
	1.1 Description		1
	1.2 Specifications		1
2.	INSTALLATION INSTRUCTIONS		
	•		
	2.5 Installing Permanent Wiring		5
3.	INITIAL SET-UP AND OPERATION		
	3.1 Operator's Safety Precautions		7
	3.3 Sanitizing		8
	<u> </u>		
	3.8 Disassembly of Freezer Parts		11
	3.9 Cleaning The Freezer Parts		12
	<u> </u>		
	3.14 Extended Storage		16
4.	TROUBLESHOOTING CHARTS		17
5	REPLACEMENT PARTS		21

LIST OF ILLUSTRATIONS

FIGURE 1	TITLE Model Optima 111 Freezer	PAGE 1
2	Specifications	1
3	Warning Label Locations	3
4	Leveling	4
5	Space and Ventilation Requirements	4
6	Electrical Plug	4
7	Installing Tray and Cover	4
8	Floor Stand	5
9	Power Cord Connection	5
10	Controls	7
11	Mix Inlet Regulator	9
12	Clean Control	9
13	Sanitizing Hopper	9
14	Draining Solution	9
15	Dispensing Product	10
16	Removing Mix Inlet Regulator	10
17	Draining Mix	10
18	Auger Flight Wear & Front Auger Support Bushing Wear	11
19	Removing Front Door	11
20	Front Door Disassembly	11
21	Removing Auger Support	11
22	Auger Shaft Removal	12
23	Removing "O" Ring	12
24	Cleaning Freezer Barrel	12
25	Exploded View of Auger	13
26	Exploded View of Front Door	13
27	Mix Inlet Regulator	13

SECTION 1 DESCRIPTION AND SPECIFICATIONS

1.1 DESCRIPTION

The Stoelting Optima 111 counter freezer is gravity fed. The freezer is equipped with fully automatic controls to provide a uniform product. The freezer is designed to operate with almost any type of commercial soft serve or non-dairy mixer available, including ice milk, ice cream, yogurt, and frozen dietary desserts. This manual is designed to assist qualified service personnel and operators in the installation, operation and maintenance of the Stoelting Model Optima 111 gravity freezer.



Figure 1. Model Optima 111 Freezer

1.2 SPECIFICATIONS

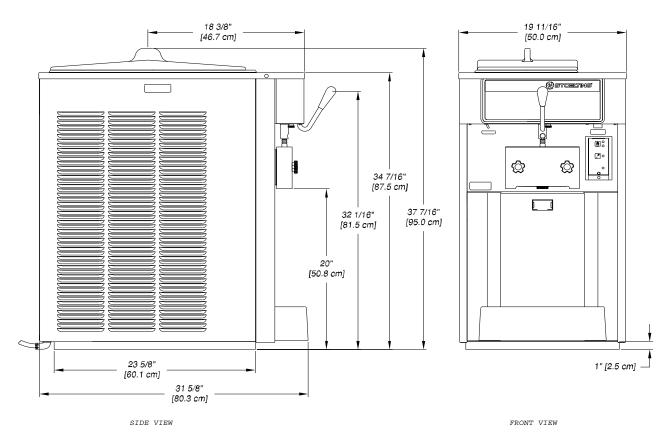


Figure 2. Specifications

MODEL OPTIMA 111 COUNTER MODEL GRAVITY FREEZER

DIMENSIONS:

Freezer: 19-11/16" (50 cm) wide x 31-5/8" (80.3 cm) deep x 37-7/16" (95 cm) high Crated: 28-3/4" (73 cm) wide x 38-3/4" (98.4 cm) deep x 43" (109.2 cm) high

WEIGHT:

Freezer: 310 lbs. (140.6 kg) Crated: 400 lbs. (181.4 kg)

ELECTRICAL:

<u>Description</u> <u>O111</u>

Voltage AC 1 PH 208/230

Total Run Amps 12.70

Drive Motor 2 HP

Use 20 amp HACR circuit breaker.

Automatic safeguard circuit built into electronic control-protects major freezer components under abnormal operating conditions.

COOLING:

Air cooled, self-contained Right to left air flow HFC friendly refrigerant

HOPPER SIZE:

6.5 gallons (24.6 liters)

BARREL SIZE:

1 gallon (3.8 liters)

SECTION 2 INSTALLATION INSTRUCTIONS

2.1 SAFETY PRECAUTIONS

Do not attempt to operate the freezer until the safety precautions and operating instructions in this manual are read completely and are thoroughly understood.

Take notice of all warning labels on the freezer. The labels have been put there to help maintain a safe working environment. The labels have been designed to withstand washing and cleaning. All labels must remain legible for the life of the freezer. Labels should be checked periodically to be sure they can be recognized as warning labels.

If danger, warning or caution labels are needed, indicate the part number, type of label, location of label, and quantity required along with your address and mail to:

STOELTING, INC.
ATTENTION: Customer Service Commercial Products Division
502 Hwy. 67
Kiel, Wisconsin 53042

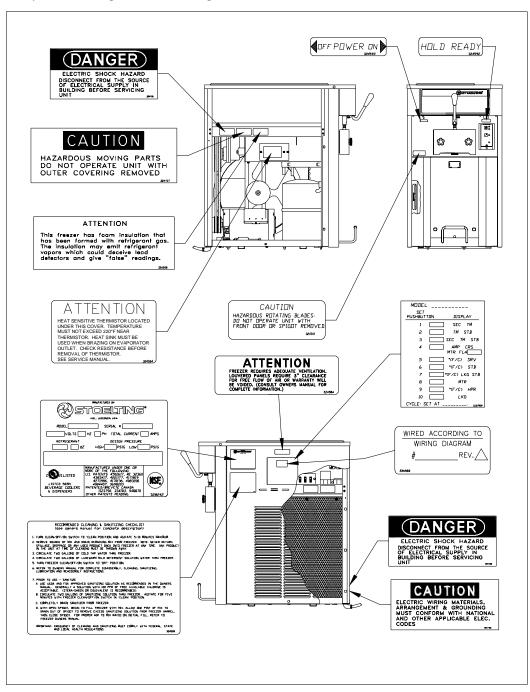


Figure 3. Warning Label Locations

2.2 SHIPMENT AND TRANSIT

The freezer has been assembled, operated and inspected at the factory. Upon arrival at the final destination, the complete freezer must be checked for any damage which may have occurred during transit.

With the method of packaging used, the freezer should arrive in excellent condition. THE CARRIER IS RESPON-SIBLE FOR ALL DAMAGE IN TRANSIT, WHETHER VISIBLE OR CONCEALED. **Do not** pay the freight bill until the freezer has been checked for damage. Have the carrier note any visible damage on the freight bill. If concealed damage and/or shortage is found later, advise the carrier within 10 days and request inspection. The customer must place claim for damages and/or shortages in shipment with the carrier. **Stoelting, Inc. cannot make any claims against the carrier.**

2.3 FREEZER INSTALLATION

Installation of the freezer involves moving the freezer close to its permanent location, removing all crating, setting in place, assembling parts, and cleaning.

- A. Uncrate the freezer.
- B. Accurate leveling is necessary for correct drainage of freezer barrel and to insure correct overrun. Place a spirit level on top of the freezer at each corner to check for level condition. If adjustment is necessary, level the freezer by turning the bottom part of each leg in or out. Then separate freezer base gasket and install with seam to the back and angle to the top. (Fig. 4).



Figure 4 - Leveling

C. The freezer is equipped with an air cooled condenser and requires correct ventilation. The right side of the freezer is the air intake and left side discharge. Both sides must have 3" clearance. The top requires 10" of clearance. (Fig. 5).

CAUTION FAILURE TO PROVIDE ADEQUATE VENTILATION WILL VOID WARRANTY!

D. Place the OFF-ON switch in the OFF position. (Fig. 10).



Figure 5. Space and Ventilation Requirements

E. Connect the power cord. The plug is designed for 208 or 230 volt/20 amp duty. Check the nameplate on your freezer for proper supply. The unit must be connected to a properly grounded receptacle. The electrical cord furnished as part of the freezer has a three prong grounding type plug (Fig. 6). The use of an extension cord is not recommended, if necessary use one with a size 12 gauge or heavier with ground wire. Do not use an adapter to get around grounding requirement.



Figure 6. Electrical Plug

CAUTION DO NOT ALTER OR DEFORM PLUG IN ANY WAY!

F. Install the drip tray, drain tray, hopper cover and other miscellaneous parts on the freezer. (Fig. 7).



Figure 7. Installing Tray and Cover

2.4 FLOOR STAND INSTALLATION

To install the 0111 onto the floor stand, follow the steps outlined below:

A. Uncrate the floor stand and place in an upright position.

NOTE

Detailed instructions are included with each floor stand.

- B. Place a spirit level across the top of the stand to check for level condition, side to side and front to back. If adjustment is necessary, level the stand by turning the bottom part of each caster in or out, then tighten the lock nut.
- C. Place supports under freezer, then remove the 4 legs and replace with the rubber stud/plate mounts provided. Mounts must be fully tightened to the freezer.
- D. Place the freezer base gasket on the floor stand with the connected seam to the back and angle side up. Center the gasket side to side and 1-3/4 inches from the rear of the floor stand.
- E. Place the freezer on the floor stand with the front of the freezer to the door end. All 4 stud/plate mounts must engage the holes in the floor stand. Secure the mounts with the nuts and washers provided. (Fig. 8).



Figure 8 - Floor Stand

2.5 INSTALLING PERMANENT WIRING

If permanent wiring is required by local codes, the following procedure must be performed.

WARNING DISCONNECT FREEZER FROM THE SOURCE OF ELECTRICAL SUPPLY BEFORE SERVICING.

- A. Remove the right side panel.
- B. Disconnect the wires from the terminal block. Disconnect the green ground wire from the grounding stud. (Fig. 9).

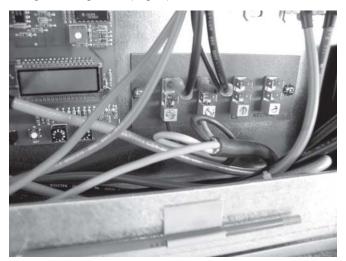


Figure 9. Power Cord Connection

- C. Remove the power cord.
- D. Install permanent wiring according to local code.
- E. Replace the side panel.

SECTION 3 INITIAL SETUP AND OPERATION

3.1 OPERATOR'S SAFETY PRECAUTIONS

SAFE OPERATION IS NO ACCIDENT; Observe these rules:

- A. **Know the freezer.** Read and understand the Operating Instructions.
- B. Notice all warning labels on the freezer.
- C. **Wear proper clothing.** Avoid loose fitting garments, and remove watches, rings or jewelry which could cause a serious accident.
- D. **Maintain a clean work area.** Avoid accidents by cleaning up the area and keeping it clean.
- E. **Stay alert at all times.** Know which switch, push button or control you are about to use and what effect it is going to have.
- F. Disconnect electrical cord for maintenance.

 Never attempt to repair or perform maintenance on the freezer until the main electrical power has been disconnected.
- G. Do not operate under unsafe operating conditions. Never operate the freezer if unusual or excessive noise or vibration occurs.

3.2 OPERATING CONTROLS AND INDICATORS

Before operating the freezer, it is required that the operator know the function of each operating control. Refer to Figure 10 for the location of the operating controls on the freezer. For the information regarding flashing indicator lights, refer to the troubleshooting section.

/! WARNING

THE OFF-ON SWITCH MUST BE PLACED IN THE OFF POSITION WHEN DISASSEMBLING FOR CLEANING OR SERVICING. THE FREEZER MUST BE DISCONNECTED FROM ELECTRICAL SUPPLY BEFORE REMOVING ANY ACCESS PANEL.

A. SPIGOT SWITCH

The SPIGOT switch will automatically actuate the auger drive and refrigeration systems when the spigot is opened to dispense product. When the spigot is closed, the drive motor and compressor will remain "on" until the product in the barrel reaches the proper consistency, or temperature.



Figure 10. Controls

B. OFF-ON SWITCH

The OFF-ON switch is a two position toggle switch used to supply power to the control circuit. When the switch is in the OFF position, nothing will run. When the switch is in the ON position the freezer will be in the idle mode until a switch is activated.

C. PUSHTO FREEZE SWITCH

The PUSH TO FREEZE switch is a "snap" switch used to start the freezing cycle. During initial freeze down, the OFF-ON switch is placed in the ON position. Then the PUSH TO FREEZE switch is pressed until the drive motor and compressor come "ON".

NOTE

After the gearmotor starts, there is a 3 second delay before the compressor starts.

During the normal operation, the red PUSHTO FREEZE switch light will illuminate after the freezer has been idle for the preset cycles. Before drawing product, press the PUSHTO FREEZE switch if it is illuminated. Wait until the green light is illuminated before dispensing.

NOTE

If the freezer shuts off and the PUSH TO FREEZE light flashes, you have an error condition. Turn the OFF-ON swtich to the OFF position, correct the problem and turn the freezer back on. (See Trouble-shooting.)

D. GREENLIGHT

The green light is used to indicate that the product has reached the proper consistency or temperature and is ready to be dispensed.

NOTE

If the PUSH TO FREEZE red light is illuminated, push the PUSH TO FREEZE switch and wait until the green light illuminates before dispensing.

E. CLEANSWITCH

The CLEAN switch is a "snap" switch. When the switch is pushed the refrigeration system will be OFF and the auger will rotate for cleaning. When the switch is pushed again, the auger will stop and the CLEAN light will flash indicating the freezer is in the CLEAN mode. To exit the CLEAN mode turn the OFF-ON switch to the OFF position. If the freezer is left in CLEAN for more than 20 minutes or is pushed three times in ten seconds, it will go in error. To reset place the CLEAN-OFF-ON switch in the ON position and allow the error light to flash a minimum of 10 minutes. Then turn to off, wait 5 seconds and turn on.

F. DRIVE MOTOR OVERLOAD

The internal DRIVE MOTOR OVERLOAD will trip if the drive motor is overloaded. It will reset after approximately 10-12 minutes. If the drive motor continues to trip, refer to Troubleshooting (Sec. 4).

G. RED MIX LOW LENS

The red MIX LOW light is designed to alert the operator to a low mix condition. The lens will illuminate with approximately one gallon of mix in the hopper. When the MIX LOW lens is lit, refill hopper immediately.

NOTE

Failure to refill hopper immediately may result in operational problems. Skim excess foam with a sanitized utensil. Failure to skim foam can affect low mix light operation.

H. HOLD READY SWITCH

The HOLD READY switch is a push button switch. When pushed in and held for 5 seconds, the hold ready mode will be activated and the word HOLD will illuminate on the touch pad. The product will remain ready to serve and the freezer will not go to idle. To return to normal operation push and hold for 5 seconds.

I. DISPENSERATE ADJUSTERS

The dispense rate adjuster limits the opening of the spigot. To adjust product dispense rate, turn the adjusting knob clockwise for slower flow and counterclockwise for faster flow.

J. FRONT DOOR INTERLOCK SWITCH

When the door is securely fastened, the freezer will operate normally. When the front door is removed, the drive and compressor will not run.

3.3 SANITIZING

Sanitizing must be done after the freezer is cleaned and just before the hopper is filled with mix. Sanitizing the night before is not effective. However, you should always clean the freezer and parts after using it.

/!\WARNING

THE UNITED STATES DEPARTMENT OF AGRI-CULTURE AND THE FOOD AND DRUG ADMINIS-TRATION REQUIRE THAT ALL CLEANING AND SANITIZING SOLUTIONS USED WITH FOOD PROCESSING EQUIPMENT BE CERTIFIED FOR THIS USE.

When sanitizing the freezer, refer to local sanitary regulations for applicable codes and recommended sanitizing products and procedures. The frequency of sanitizing must comply with local health regulations. Mix sanitizer according to manufacturer's instructions to provide a 100 parts per million strength solution. Mix sanitizer in quantities of no less than 2 gallons (7.5 liters) of 120°F water. Allow sanitizer to contact the surfaces to be sanitized for 5 minutes. Any sanitizer must be used only in accordance with the manufacturer's instructions.

NOTE

Stoelting, Inc. has found that STERA-SHEEN GREEN LABEL SANITIZER AND CLEANER does an effective job of properly sanitizing and cleaning a soft serve freezer. We therefore include a sample with each new freezer. Other products may be as effective. For further information refer to cleaning and sanitizing information Section 3.13.

CAUTION

PROLONGED CONTACT OF SANITIZER WITH FREEZER MAY CAUSE CORROSION OF STAIN-LESS STEEL PARTS.

In general, sanitizing may be conducted as follows:

 Push the mix inlet regulator into hopper with air inlet (long) tube toward the front of the freezer (Fig.11).



Figure 11. Mix Inlet Regulator

- B. Prepare 2 gallons (7.5 liters) of sanitizing solution following manufacturer's instructions. Pour into hopper with mix inlet regulator in place.
- Place the OFF-ON toggle switch in the ON position while pressing the CLEAN switch. Check for leaks. (Fig. 12.)



Figure 12. Clean Control

 Clean sides of hopper, mix inlet regulator and under side of hopper cover using a sanitized soft bristle brush dipped in the sanitizing solution. (Fig. 13).



Figure 13. Sanitizing Hopper

E. After five minutes, place a bucket under the spigot and open spigot to drain sanitizing solution. When solution has drained, press the CLEAN snap switch to stop the auger. Allow the freezer barrel to drain completely (Fig. 14).



Figure 14. Draining Solution

3.4 FREEZE DOWN AND OPERATION

This section covers the recommended operating procedures to be followed for the safe operation of the freezer.

- A. Sanitize just prior to use.
- B. Place the OFF-ON switch in the OFF position.
- C. With spigot open, pour approximately 1 gallon (3.8 liters) of mix into the hopper. Allow the mix to flush out about 8 ounces (0.23 liters) of sanitizing solution and liquid mix. Close the spigot.
- D. Fill hopper with approximately 6.5 gallons (24.6 liters) of pre-chilled (40°F or 4°C) mix.

\wedge

CAUTION

DO NOT OVERFILL THE HOPPER. MIX LEVEL MUST NOT BE HIGHER THAN THE AIR INLET TUBE ON THE MIX INLET REGULATOR.

- E. The freezer barrel will automatically fill until it is about 1/2 full. If freezer barrel does not fill, check for obstruction in the mix inlet regulator. If freezer barrel fills over 1/2 full, indicated by low overrun, check for leaks at the mix inlet regulator "O" Ring or check if the mix inlet regulator was installed correctly or that the freezer is level.
- F. Place the OFF-ON switch in the ON position, then press the PUSH TO FREEZE switch until the freezer starts.

NOTE

After the gearmotor starts, there is a 3 second delay before the compessor starts.

- G. After about 6 to 10 minutes the freezer will shut OFF and the green lens will illuminate. The product is ready to serve. Freeze down time may be longer for some frozen diet dessert mixes. High ambient temperatures may extend freeze down time.
- H. For normal dispensing, move the spigot handle fully open 60° (Fig. 15).



Figure 15. Dispensing Product

CAUTION
REFRIGERATION IS AUTOMATICALLY ACTIVATED WHEN THE SPIGOT IS OPENED. CLOSE
THE SPIGOT COMPLETELY AFTER DISPENSING.

- I. The freezer is designed to dispense the product at a reasonable draw rate. If the freezer is overdrawn, the result is a soft product or a product that will not dispense at all. If this should occur, allow the freezer to run for approximately 30 seconds before dispensing additional product. After a while the operator will sense or feel when the freezer is beginning to fall behind, and will slow down on the rate of draw so as not to exceed the capacity.
- J. Do not operate the freezer when the MIX LOW light is on or with less than 1-3/4 inches (4.4 cm) of mix in the hopper. Refill the hopper immediately.

3.5 MIXINFORMATION

Mix can vary considerably from one manufacturer to another. Differences in the amount of butter-fat content and quantity and quality of other ingredients have a direct bearing on the finished frozen product. A change in freezer performance that cannot be explained by a technical problem may be related to the mix.

Proper product serving temperature varies from one manufacturer's mix to another. Soft serve mixes should provide a satisfactory product in the 18° to 20°F (-7° to -6°C) range, shake mixes 24° to 28°F (-4° to -2°C).

When checking the temperature, stir the thermometer in the frozen product to read the true temperature.

Mix does not improve with age. Old mix, or mix that has been stored at too high temperature, can result in a finished product that is less than satisfactory from the appearance and taste standpoint. To retard bacteria growth in dairy based mixes, the best storage temperature range is between 36° to 40°F (2.2° to 4.4°C).

Some products tend to foam more than others. If excess foam should occur, skim off with a sanitized utensil and discard. Periodically, stir the mix in the hopper with a sanitized utensil.

3.6 REMOVING MIX FROM FREEZER

To remove the mix from the freezer, refer to the following steps:

A. Remove the mix inlet regulator from the hopper by pulling straight up (Fig. 16).



Figure 16. Removing Mix Inlet Regulator

- B. Place the OFF-ON rocker switch in the ON position and push the CLEAN switch to rotate the auger. Allow the mix to agitate in freezer barrel until the mix has become a liquid, about 5 minutes.
- C. Drain the liquid mix by opening the spigot. A bucket or container should be placed under the spigot to catch the liquid mix. (Fig. 17).
- D. Place the OFF-ON switch in the OFF position.



Figure 17. Draining Mix

3.7 CLEANING THE FREEZER

NOTE

The frequency of cleaning the freezer and freezer parts must comply with local health regulations.

After the mix has been removed from the freezer, the freezer must be cleaned. To clean the freezer, refer to the following steps:

- A. Close the spigot and fill the hopper with 2 gallons (7.5 liters) of cold tap water.
- B. Place the OFF-ON switch in the ON position while pushing the CLEAN switch to rotate the auger.
- C. Allow the water to agitate for approximately 5 minutes.

NOTE

If freezer is left in CLEAN for more than 20 minutes, it will go to error.

- D. Open the spigot to drain the water. Remember to place a bucket or container under the spigot to catch the water. When the water has drained, turn the OFF-ON switch to the OFF position. Allow the freezer barrel to drain completely.
- E. Repeat Steps A through D using a mild detergent solution.

3.8 DISASSEMBLY OF FREEZER PARTS

CLEANING OR SERVICING.

CAUTION PLACE THE OFF-ON TOGGLE SWITCH IN THE OFF POSITION BEFORE DISASSEMBLING FOR

Inspection for worn or broken parts should be made at every disassembly of the freezer for cleaning or other purposes. All worn or broken parts should be replaced to ensure safety to both the operator and the customer and to maintain good freezer performance and a quality product. Two normal wear areas are the auger flights and front auger support (Fig.18). Frequency of cleaning must comply with the local health regulations.



Figure 18. Auger Flight Wear and Front Auger Support Bushing Wear

To disassemble the freezer, refer to the following steps:

- A. Remove hopper cover and drain tray (Fig. 19).
- B. Remove the mix inlet regulator from the hopper by pulling straight up.
- C. Remove the front door by turning off the circular knobs and then pulling the front door off the studs.



Figure 19. Removing Front Door

D. Remove the rosette, then remove the spigot body from the front door by pushing the spigot body through the bottom of the front door (Fig. 20).



Figure 20. Front Door Disassembly

E. Remove the front auger support and bushing (Fig. 21).



Figure 21. Removing Auger Support

F. Remove the auger assembly from the freezer (Fig. 22). Pull the auger out of the freezer barrel slowly. As the auger is being pulled out, carefully remove each of the plastic flights with springs.



Figure 22. Auger Shaft Removal

- G. Keep the rear of the auger shaft tipped up once it is clear of the freezer to avoid dropping rear seal.
- H. Remove the rear seal.
- I. Wipe socket lubricant from the drive end (rear) of the auger with a cloth or paper towel.
- J. Remove all "O" Rings from parts be first wiping off the lubricant using a clean paper towel. Then squeeze the "O" Ring upward with a dry cloth (Fig. 23). When a loop is formed, roll out of the "O" Ring groove.

/!\warning DO NOT USE ANY TYPE OF SHARP OBJECT TO REMOVE THE "O" RINGS.



Figure 23. Removing "O" Ring

3.9 CLEANING THE FREEZER PARTS

Place all loose parts in a pan or container and take to the wash sink for cleaning. To clean freezer parts refer to the following steps:

A. Place all parts in warm mild detergent water and clean with brushes provided. Rinse all parts with clean hot water.

CAUTION DO NOT DAMAGE PARTS BY DROPPING OR ROUGH HANDLING.

B. Wash the hopper and freezer barrel with warm detergent water and brushes provided. (Fig. 24).



Figure 24. Cleaning Freezer Barrel

C. Clean the drip tray and insert with a soap solution. Rinse with clean hot water.

3.10 SANITIZE FREEZER AND FREEZER PARTS

- A. Use a sanitizing solution of 100 parts per million to sanitize the parts before assembly.
- B. Place all parts in the sanitizing solution, then remove and let air dry.
- C. Using this sanitizing solution and the large barrel brush provided, sanitize the rear of the barrel by dipping the brush in the sanitizing solution and brushing.

3.11 ASSEMBLY OF FREEZER

To assemble the freezer parts, refer to the following steps:

NOTE

Petro-Gel sanitary lubricant or equivalent must be used when lubrication of parts is specified.

NOTE

The United States Department of Agriculture and the Food and Drug Administration require that lubricants used on food processing equipment be certified for this use. Use lubricants only in accordance with the manufacturer's instructions.

- A. Assemble all "O" Rings onto parts dry, without lubrication. Then apply a thin film of sanitary lubrication to exposed surfaces of the "O" Rings. Apply a thin film of sanitary lubricant to metal part of rear seal. Also apply a thin film of sanitary lubricant inside and outside of the front auger support bushing.
- B. Assemble the rear seal onto the auger with the large end to the rear. Be sure the "O" Ring is in place before installing the rear seal.
- C. Lubricate the auger drive (rear) with a small amount of white socket lubricant. A small container of socket lubricant is shipped with the freezer.
- D. Screw the springs onto the studs in plastic flights. Springs must be screwed into the flights completely to provide proper compression (Fig. 25).

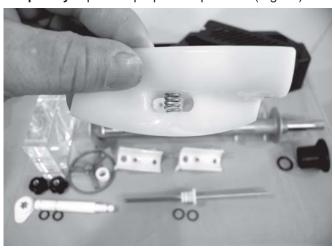


Figure 25. Spring Installation

CAUTION
DO NOT PLACE THE MIX INLET REGULATOR
INTO THE HOPPER BEFORE INSTALLING THE
AUGER.

- E. Install the two plastic flights onto rear of the auger and insert part way into freezer barrel.
- F. Install the remaining plastic flights, push the auger into the freezer barrel and rotate slowly until the auger engages the drive shaft.
- G. Install the bushing and auger support into the front of the auger with one leg of the support pointing straight up.
- H. Install the spigot body with "O" Rings into the front door from bottom (Fig. 26). Push straight up until the spigot is in place.



Figure 26. Exploded View of Front Door

I. Install the front door on the freezer studs, then hand tighten the circular knobs.

CAUTION FINGER TIGHTEN THE CIRCULAR KNOBS EVENLY. DO NOT OVERTIGHTEN KNOBS.

Look for the proper seal between the freezer barrel, "O" Ring, and front door.

- K. Install the mix inlet regulator into the freezer with the air tube to the front of the freezer (Fig. 27).
- L. Install hopper cover and drain tray.



Figure 27. Mix Inlet Regulator

3.12 ROUTINE CLEANING

To remove spilled or dried mix from the freezer exterior, simply wash in the direction of the finish with warm soapy water and wipe dry. **Do not** use highly abrasive materials as they will mar the finish.

3.13 PREVENTIVE MAINTENANCE

It is recommended that a maintenance schedule be followed to keep the freezer clean and operating properly.

A. Cleaning and Sanitizing Information

Soft serve freezers require special consideration when it comes to food safety and proper cleaning and sanitizing.

The following information has been compiled by Purdy Products Company, makers of Stera-Sheen Green Label Cleaner/Sanitizer and specifically covers issues for cleaning and sanitizing frozen dessert machines. This information is meant to supplementa comprehensive food safety program.

<u>Soil Materials Associated with Frozen Dessert Machines</u>

MILKFAT/BUTTERFAT – As components of ice-cream/frozen custard mix, these soils will accumulate on the interior surfaces of the machine and its parts. Fats are difficult to remove and help attribute to milkstone build-up.

MILKSTONE – Is a white/gray film that forms on equipment and utensils that come in contact with dairy products. These films will accumulate slowly on surfaces because of ineffective cleaning, use of hard water, or both. Milkstone is usually a porous deposit, which will harbor microbial contaminants and eventually defy sanitizing efforts.

Once milkstone has formed, it is very difficult to remove. Without using the correct product and procedure, it is nearly impossible to remove a thick layer of milkstone.

(NOTE: general-purpose cleaners DO NOT remove milkstone.) *This can lead to high bacteria counts and a food safety dilemma.*

IT IS BEST TO CONTROL MILKSTONE ON A DAILY BASIS BEFORE IT CAN BECOME A SIGNIFICANT FOOD SAFETY PROBLEM.

In addition to food safety, milkstone can cause premature wear to machine parts which can add to costs for replacement parts or possibly more expensive repairs if worn machine parts are not replaced once they have become excessively worn.

Important Differences Between *Cleaning* and *Sanitizing*

CLEANING vs. SANITIZING

It is important to distinguish between cleaning and sanitizing. Although these terms may sound synonymous, they are not. BOTH are required for adequate food safety and proper machine maintenance.

CLEANING

- Is the removal of soil materials from a surface.
- Is a prerequisite for effective sanitizing.

NOTE

An UNCLEAN surface will harbor bacteria that can defy sanitizing efforts.

Bacteria can develop and resist sanitizing efforts within a layer of soil material (milkstone). *Thorough cleaning procedures that involve milkstone removal are critical for operators of frozen dessert machines.*

SANITIZING

- Kills bacteria.
- Can be effective on clean surfaces only.
- **DOES NOT** clean or remove milkstone.

NOTE

Using a **SANTITIZER** on an unclean surface **will not** guarantee a clean and safe frozen dessert machine.

Proper Daily Maintenance: The Only Way to Assure Food Safety and Product Quality

Proper daily maintenance can involve a wide variety of products and procedures. Overall, the products and procedures fall into three separate categories. (Please note that this is a brief overview intended for informational purposes only.)

- CLEANING This involves draining mix from the freezer barrel and rinsing the machine with water. Next, a cleaner is run through the machine. Then, the machine is disassembled and removable parts are taken to the sink for cleaning.
- 2. MILKSTONE REMOVAL Since almost all cleaners do not have the ability to remove milkstone, the use of a delimer becomes necessary. Although this procedure may not be needed on a daily basis, it will usually follow the cleaning procedure. It requires letting a delimer solution soak in the machine for an extended period of time. Individual parts are also soaked in a deliming solution for an extended period of time (more about delimers in Additional Information).

 SANITIZING – After the machine has been cleaned and contains no milkstone, the machine is reassembled. Then a FDA-approved sanitizing solution is run through the machine to kill bacteria. The machine is then ready for food preparation.

As a recommended cleaner and sanitizer for your frozen dessert machine, STERA-SHEEN has proven to be one of the best daily maintenance products for:

- CLEANING Thorough removal of all solids including butterfat and milk fat.
- MILKSTONE REMOVAL Complete removal of milkstone.
- SANITIZING FDA-approved no rinse sanitizer for food contact surfaces.

Additional Information

THE USE OF DELIMERS

A delimer is a strong acid that has the ability to dissolve milkstone. This type of chemical may become necessary once high levels of milkstone have developed. While these products are very effective for removing HIGH levels of milkstone, they are not ideal for two reasons:

- PRODUCT SAFETY Strong acids are dangerous chemicals and handling them requires safety
- MACHINE DAMAGE Strong acids will attack metal and rubber causing premature wear of parts. The use of a delimer needs to be closely monitored to avoid damage to machine surfaces and parts.

With proper daily use of STERA-SHEEN or it's equivalent, there is <u>no need</u> for the use of a <u>DELIMER</u>.

DO NOT USE BLEACH

- BLEACH HAS ABSOLUTELY NO CLEANING PROPERTIES.
- BLEACH IS CORROSIVE. It can and will damage components of the machine causing premature wear and metal corrosion.

GENERAL PURPOSE CLEANERS

General purpose cleaners **do not** have the ability to remove milkstone. Milkstone will become a problem *if not remedied* with additional products and procedures.

THE USE OF CHLORINE TEST STRIPS

"Test strips" are used to determine concentrations of active chlorine in sanitizing solutions. To use the strips, tear off a small portion and submerge it into the sanitizing solution. Then, compare the color change to the color key on the side of the test strip dispenser to determine the approximate chlorine concentration.

The ideal concentration of chlorine needs to be 100 ppm (as stated by the FDA).

NOTE

Follow the directions on the container for proper concentration.

There are two main factors that contribute to falling chlorine concentrations in a sanitizing solution.

- PRODUCT USE As the chlorine in the solution is being used, chlorine concentrations fall
- TIME As time passes, small amounts of chlorine "evaporate" from the solution. (That is why you can smell it.)

Sanitizing solutions *should not* be allowed to fall below 100 ppm chlorine. New solutions should be mixed once old solutions become ineffective



NEVER ATTEMPT TO REPAIR OR PERFORM MAINTENANCE ON FREEZER UNTIL THE MAIN ELECTRICAL POWER HAS BEEN DISCONNECTED.

B. DAILY

 The exterior should be kept clean at all times to preserve the lustre of the stainless steel. A mild alkaline cleaner is recommended. Use a soft cloth or sponge to apply the cleaner.



DO NOT USE ACID CLEANERS, STRONG CAUSTIC COMPOUNDS OR ABRASIVE MATERIALS TO CLEAN ANY PART OF THE FREEZER EXTERIOR OR PLASTIC PARTS.

C. WEEKLY

- Check "O" Rings and rear seal for excessive wear and replace if necessary.
- Remove the drip tray by gently lifting up to disengage from the support and pulling out. Clean behind the drip tray and front of the freezer with a soap solution.

D. MONTHLY



THE FREEZER HAS AN AIR COOLED CON-DENSER AND MUST HAVE PROPER AIR CIRCU-LATION. DO NOT PLACE RIGHT SIDE OF FREEZER ANY CLOSER THAN 3 INCHES FROM THE WALL. FAILURE TO CLEAN THE CON-DENSER FILTER ON A REGULAR BASIS MAY RESULT IN SERIOUS FREEZER DAMAGE AND COULD VOID FREEZER WARRANTY.

- Remove the phillips head screws from the lower side of the right side panel and pull the side panel down and out
- Remove the condenser filter and clean in warm soapy water. Rinse in clean water and squeeze dry, taking care not to damage the filter in any way.
- 3. Replace the condenser filter and side panel.

E. SEMI-ANNUALLY

- Check drive belt for proper tension. Push belt in with one finger, belt should deflect about 3/8".
- Lubricate condenser fan motor with S.A.E. 20 weight oil. Three to six drops is required.

CAUTION DO NOT OVER LUBRICATE; RESULTING DAMAGE COULD CAUSE MOTOR FAILURE.

3.14 EXTENDED STORAGE

Refer to the following steps for storage of the freezer over any long period of shutdown time:

- A. Turn the OFF-ON switch to the OFF position.
- B. Disconnect (unplug) from the electrical supply source.
- C. Clean thoroughly with a warm detergent all parts that come in contact with the mix. Rinse in clean water and dry parts. Do not sanitize.

NOTE

Do not let the cleaning solution stand in the hopper or in the freezer barrel during the shutdown period.

D. Remove, disassemble and clean the front door, mix inlet regulator and auger parts. Place the auger flights and the front auger support bushing in a plastic bag with a moist paper towel to prevent them from becoming brittle.

SECTION 4 TROUBLESHOOTING CHARTS

PROBLEM	POSSIBLE CAUSE	REMEDY
Freezer does not run.	 Power to freezer is off. Fuse or circuit if blown or tripped. Freeze-up (auger will not turn). High pressure cut-out tripped. Front door not in place. 	1. Supply power to freezer. 2. Replace or reset. (If condition continues, see notes 1 or 2). 3. Turn OFF-ON switch to OFF for 15 minutes, then restart. 4. Reset high pressure cut-out. 5. Assemble front door in place.
Freezer does not run, PUSH TO FREEZE light flashes in sequence of four.	1. Freezer has been left in the CLEAN mode for more than 30 minutes. 2. CLEAN switch has been activated 3 times within 10 seconds. 3. Low torque error.	1. Let light flash for 10 minutes, then place the OFF-ON switch to the OFF position to reset. 2. Leave OFF-ON switch in the ON position for 10 minutes, then place the OFF-On switch to the OFF position to reset. 3. Place the OFF-ON switch to the OFF position to reset.
Freezer does not run, PUSH TO FREEZE light flashes in sequence of five.	No mix in hopper. Mix inlet regulator not allowing mix to flow into barrel. Sensor problem.	Fill hopper with mix. Remove mix inlet regulator, clean, sanitize, and replace. Call distributor for service.
Freezer will not shut off.	 Not enough mix in hopper. Drive belt failure. Consistency temperature setting is too firm. Consistency temperature control failure. Alcohol content in cocktail mix is too high. Reduced air flow. Refrigeration problem. 	 Fill hopper with mix. Replace drive belt. Readjust. Refer to Page 9 for location. (Call distributor for service.) Replace. (Call distributor for service.) Reduce percent of alcohol content. Check for proper air flow thru the condenser Check system. (Call distributor for service)
Product is too soft.	1. Product is being dispensed when the PUSH TO FREEZE light is illuminated red. 2. No vent space for free flow of cooling air. 3. Air temperature entering condenser is above 100°F. 4. Condenser is dirty. 5. Consistency setting too soft. 6. Stabilizers in mix are broken down. 7. Auger is assembled wrong. 8. Reduced air flow. 9. Refrigeration problem.	 Press the PUSH TO FREEZE push button. Wait until the green light illuminates before dispensing. A minimum of 3 inches of vent space required. (See paragraph 2.3) Change location or direct hot air away from freezer. Clean. (See paragraph 3.7) Readjust. (Call distributor for service.) Remove mix, clean, sanitize and freeze down with fresh mix. Remove mix, clean, reassemble, sanitize and freeze down. Check for proper air flow thru the condenser. Check system. (Call distributor for service.)

Product is too firm.	 No mix in hopper. Small portions are being dispensed in a short time. Consistency temperature setting is too firm. Consistency temperature control failure. Line voltage fluctuating. 	 Fill hopper with mix. Allow freezer to sit idle for 5 minutes before dispensing. Readjust. (Refer to Page 9 for location. Call distributor for service.) Replace. (Call distributor for service.) Check. (Call distributor for service.)
Product does not dispense.	 No mix in hopper. Mix inlet regulator tube is plugged. Special mix inlet regulator needed for mix being used. Capacity of freezer is being exceeded. Drive motor overload tripped. Drive belt failure. Freeze-up. (Auger will not turn.) 	 Fill hopper with mix. Unplug, using small sanitized brush. Order special mix inlet regulator. Slow up on the draw rate. Automatic reset. Wait 15 to 30 minutes. Replace drive belt. Turn OFF-ON switch to OFF for 15 minutes, then restart.
Drive belt slipping or squealing.	Worn drive belt. Freeze-up (Auger will not turn).	(Call distributor for service) Turn OFF-ON switch to OFF for 15 minutes, then restart.
Low overrun.	Mix inlet regulator missing. Mix inlet regulator "O"ring missing Mix inlet regulator air tube blocked. Product breakdown.	1. Replace mix inlet regulator. 2. Replace mix inlet regulator "O" ring. 3. Clean with sanitized brush. 4. Fill freezer with fresh product.
Front door leaks	 Front door knobs are loose. Spigot parts are not lubricated. Chipped or worn spigot "O" rings. "O" rings or spigot installed wrong. Inner spigot hole in front door nicked or scratched. 	1. Tighten knobs. 2. See paragraph 3.11 3. Replace "O" rings. 4. Remove spigot and check "O" ring. 5. Replace front door.
Hopper will not maintain mix temperature below 45°F (7°C)	1. Consistency control on board needs to be adjusted. 2. Consistency control failure. 3. EPR valve needs adjustment. 4. Refrigeration problem. 5. Hopper cover not fitted properly.	1. (Call distributor for service.) 2. Replace. (Call distributor for service.) 3. Adjust EPR valve. 4. Check system. (Call distributor for service. 5. Check hopper cover for proper fit.

ERROR CODE SYSTEM

CODE	P.T.F. LIGHT FLASHES	MEANING
01	Sequence of one	*Program board
02	Sequence of two	*Power board
03	Sequence of three	*Low torque error
04	Sequence of four	*Clean error
05	Sequence of five	*Barrel sensor
06	Sequence of six	*Hopper sensor
07	Sequence of seven	*Drive motor

^{*}Refer to Page 17 for Troubleshooting.

NOTE

Flashing CLEAN light is not an error. It indicates the freezer is in the CLEAN mode. To exit, turn the OFF-ON switch to the OFF position.

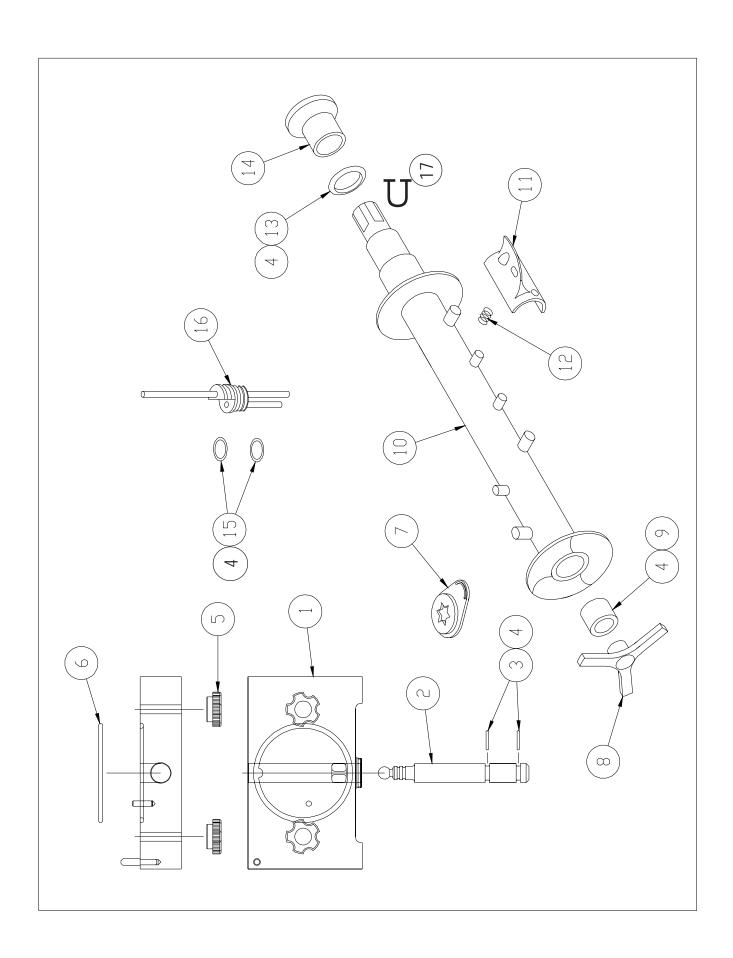
SECTION 5 REPLACEMENT PARTS

5.1 HOW TO ORDER PARTS

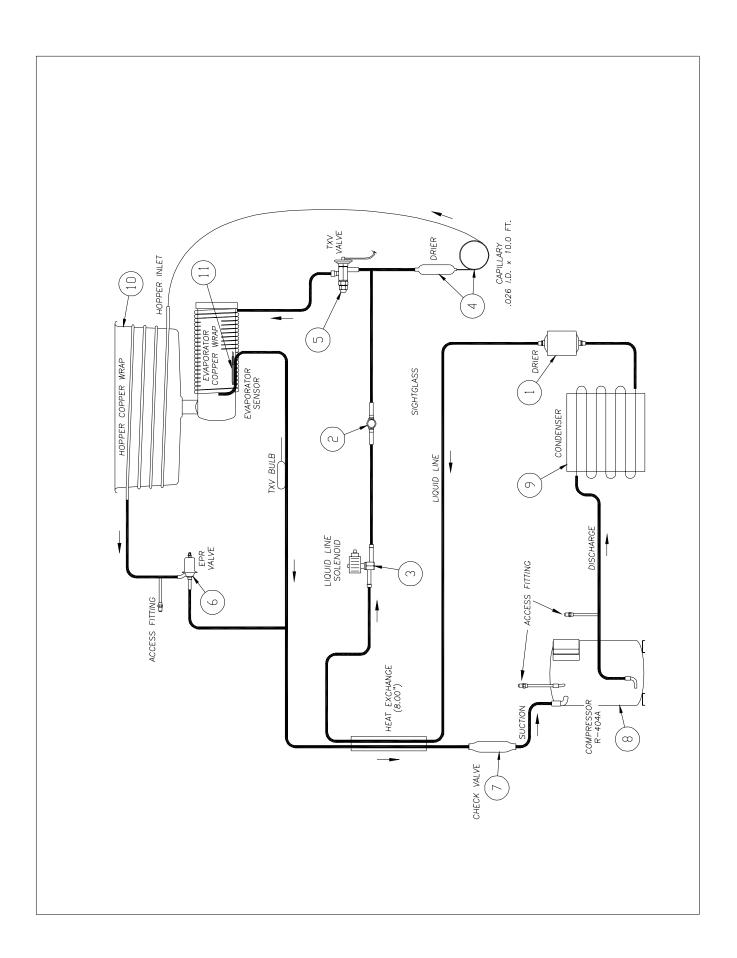
To assure receipt of the proper replacement parts, supply your dealer or distributor with the following information:

- A. Model number of equipment.
- B. Serial number of model, stamped on nameplate
- C. Part number, part name and quantity needed. Common part names and numbers are listed in this manual.

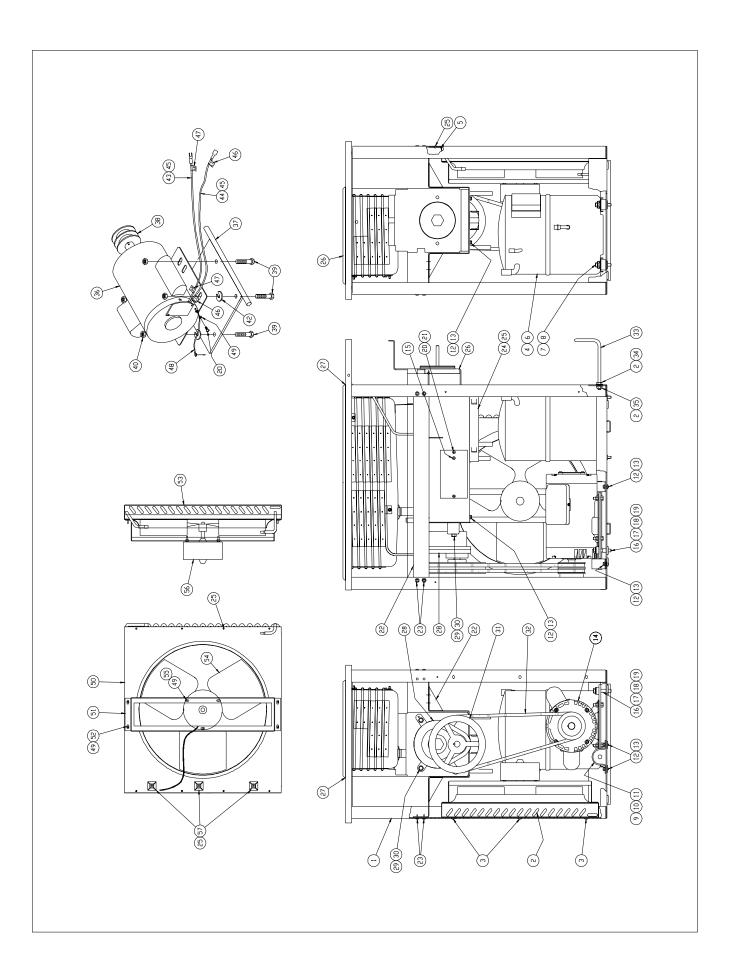
Part Number	<u>Description</u>
208401 208135 208381	Brush, 2.54cm (1") diameter Brush, 10cm (4") diameter Brush, .95cm (3/8") diameter
208467	Brush, .80cm (5/16") diameter
324107 324105 324106	Decal - Hazardous Moving Parts Decal - Electrical Shock Hazard Decal - Applicable Electrical Code
324108	Decal - Caution Decal - Caution - Rotation Blade
324141 324584	Decal - Adequate Ventilation
368140	Air Filter
508135	Petro-Gel Lubricant
508048	Spline Lubricant
Common Wear	
381804	Auger Flights (5)
694255	Auger Flight Springs (5)
624598	O-Ring - Spigot (2)
625133	O-Ring - Door (1)
624607	O-Ring - Carburetor (2)
624678	O-Ring - Auger Rear Seal (1)
666786	Rear Seal w/insert (1)
149003	Front Auger Bushing (1)
232734	Rosette Cap (1)
152371	V-Belt (2)



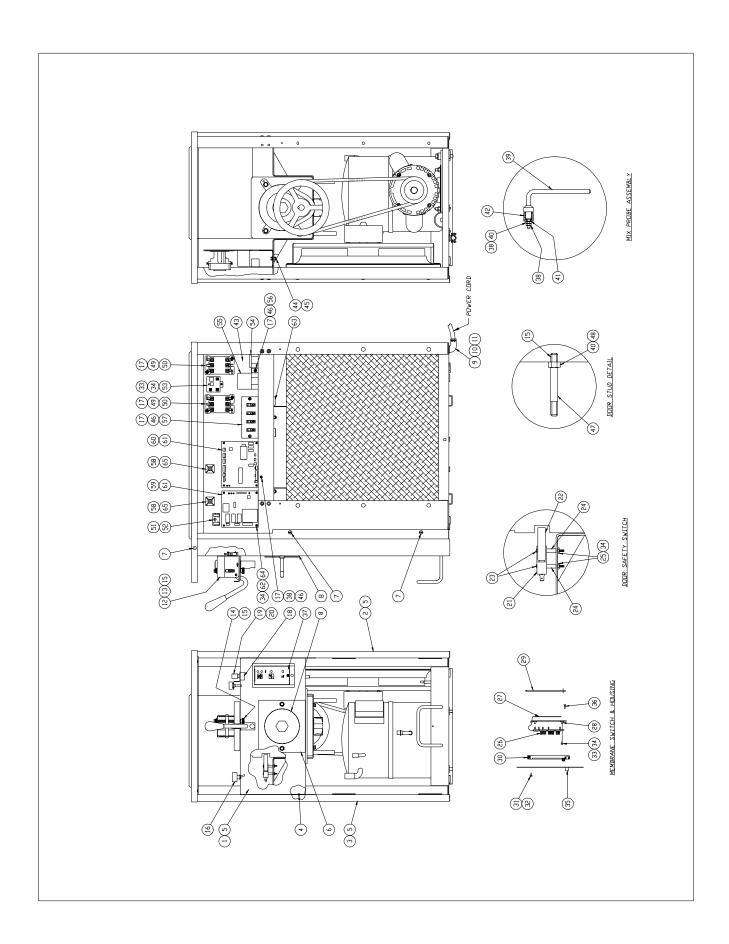
<u>Item</u>	Stoelting P/N Qty	N Oty	<u>Description</u>
_	2177698	_	Door w/pins (Gravity)
2	3159696	_	Spigot
က	624598	7	O-Ring 5/8 x 7/8 x 1/8 Minn. Rubber
4	508135	AsRedd	Lubricant, Petro-Gel, 4 Oz. Tubes
2	482019	7	Knob Black
9	625133	_	O-RIng 4.0 x 4.38 x .19 Silicone
_	232734	-	Adapter Cap - 6 Point Rosette
∞	3170644	-	Front Auger Support
တ	149003	-	Bearing Front Auger, Celecon
10	3156795	-	Auger
7	381804	2	Flight Loose Plastic Auger
12	694255	2	Spring Comp
13	624678	-	O-Ring 1-1/2 x 1-1/8 x 3/16 C-S
14	982999	-	Seal, Rear with Insert
15	624607	7	O-Ring 11/16 x 7/8 x 3/32 Special
16	1145194	-	Carburetor Assembly - 4B
			Carburetor Assembly - 4A
			Carburetor Assembly - 4C
			Carburetor Tubes available in extended length. 4AL
17	508048	As Redd	Spline Lube (Special Food Grade)



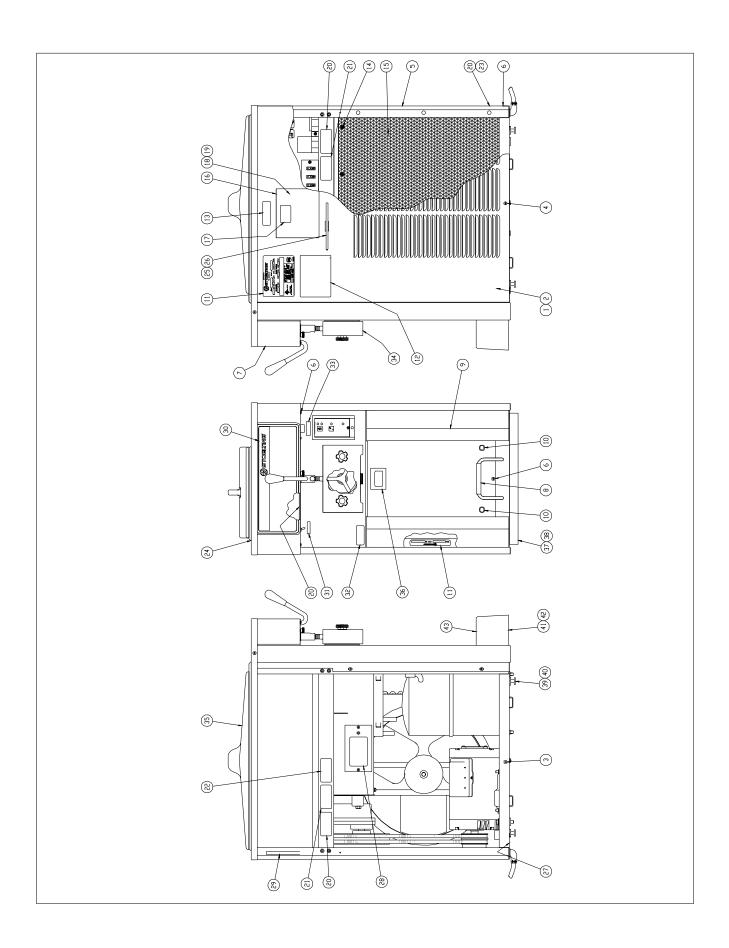
Y <u>Description</u>	Drier	Indicator, Sight Glass 1/4	Valve Solenoid	Capillary Tube & Drier Replacement	Valve, Expansion 1/2 Ton	EPR Valve - Green Label	Check Valve (Magni-Chek)	Compressor 208-230/60/1PH	Condenser 2-Row (serial #0-13365)	Condenser 3-Row (serial #13366 and up)	Evaporator Assembly	Thermister Prober Assv
ð	_	_	_	_	_	_	_	_	_	_	_	_
Stoelting P/N Qty	342008	458010	763452	231101-SV	762448	762978	762277	282032-SV	284071	284084	4177556	2171962
<u>Item</u>	_	7	က	4	2	9	7	∞	တ	တ	10	7



<u>Description</u>	Washer Shakeproof 3/8 Zinc	Pulley, 7.00 PD Machined	Belt V, 45.20 L, 44.3 PI	Handle	Washer Rnd .812 OD x .406 ID Stl	Lock Washer	Motor 2 HP 208-230/60/1 1740 RPM	Motor Platform Assembly	Pulley, Machined	Screw Cap 5/16-18 x 1-1/4 Hx Hd Zp	Nut Hex 5/16 - 18 Locking Flange	Connector, Wire (Orange)	Shim, 12 Ga	WKX48C5B Harness	WBX62C5B Harness	Connector, Wire (Yellow)	Marker Wire Number L1	Marker Wire Number L2	WPP08E2T Harness	Washer Shakeproof 10 Zinc.	Condenser Shroud	Fan Bracket	Nut Hex Full 10-24 Zp	Condenser Coil 20 x 19.125 x 2-Row	Fan Blade 16"	Nut Hex #10-32 x 3/8 Stl Zp	Fan Motor 115/208-240V 60/50 Hz	Mount Adhesive Back 1 x 1 Plastic	
Qt	4	_	7	_	7	7	_	_	_	4	4	7	7	_	_	7	7	7	_	∞	_	_	4	_	_	က	_	က	
Stoelting P/N	766982	2147034	152371	3158185	766464	766081	522856	2177567	1145153	644339	538351	M870236	1113347	430933	430934	M870237	519008	519009	430255	766948	4159457	3156518	538297	284071	162077	538305	522291	524091	
<u>Item</u>	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	20	51	52	53	54	22	99	22	
Description	Frame Weldment	Nut Hex Jam 3/8-16 x 9/16 Stl Zp	Rivet Drive 1/4 Dia. x 1/4	Compressor 208-230/60/1PH	Blockoff Panel	Grommet Kit with Sleeves	Screw Cap 5/16-18 x 1-3/4 Hx	Washer Flat 5/16, 7/8 x 3/8 x 14 Ga	Motor Mounting Clamp	Mount Mtr. Hinge Pin	Bushing Nylon 3/4 OD x 1/2 ID	Washer Shakeproof 1/4 Zinc	Screw Cap 1/4-20 x 1/2 Hx Hd	Drive Motor Assembly (1 PH)	Bushing Snap .18ID x .312 Hole	Screw Cap 3/8-16 x 2-1/2 Hx Hd	Washer Flat 3/8 x 1 x 7/16 14 Ga. Zp	Bushing 7/8 x 3/8 x 3/8 Thick	Adhesive Loctite 242-31	Screw Tap 10-24 x 3/8 Rd Hd Ph	Access Plate	Evaporator Base Plate	Rivet Blind 1/4	Drain Tray Support	Rivet 1/8 Dia. x .232 Lg. Steel	Evaporator Weldment & Foamed	Epoxy, Adhesive DP 110 Gray 3M	Speed Reducer 5.2:1 Reduction	Screw Cap 3/8-16 x 2 Hx Hd Zp
Qty	_	4	9	_	_	_	4	4	2	2	2	8	∞	_	_	_	_	_	As Reqd	က	_	_	8	_	15	_	As Reqd	_	4
Stoelting P/N	4177557	538363	628064	282032-SV	2177577	422156	644371	767211	2100737	524028	221610	766964	644091	3177584	223003	644618	767216	221627	M820172	649104	1157989	4177564	628046	2157973	628007	4177556	M940077	614232	644605
<u>Item</u>	_	7	က	4	2	9	7	œ	6	10	7	12	13	14	15	16	17	18	19	20	21	22	23	24	22	56	27	28	29



em	Stoelting P/N	Qty	Description	<u>Item</u>	Stoelting P/N	<u>Qty</u>	Description
_	4177572	~	Upper Front Panel	34	766933	ø	Washer Shakeproof 6 x 5/16
2	3177574	~	Right Front Corner Member	35	463012	~	Insert Receptacle 1/4 Turn
က	3177575	~	Left Front Corner Member	36	647412	_	Screw Mach 6-32 x 3/8" Lg.
4	628009	9	Rivet 1/8 Dia. x .232 Lg. Steel	37	324612	_	Decal Control
2	463004	4	Insert Threaded #10-24	38	538296	က	Nut Hex #10-24 x 3/8 SS
9	396174	—	Gasket, Front Evaporator	39	2172828	_	Mix Probe Assembly
7	647653	13	Screw Mach 10-24 x 3/8 Trs Hd	40	M820071	As Redd	Adhesive Loctite 271
80	M820309	As Redd	Sealant Dow Corning Aluminum	41	766430	· -	Washer Round
6	292601	_	Connector Conduit 3/8 x 90 Deg.	45	1157996	_	Spacer
10	221545	~		43	3177573	_	Electrical Panel
7	756053	<u>"</u> 4	Tubing Shrink 1/2" Black	44	644091	2	Screw Cap 1/4-20 x 1/2 Hx Hd
12	3158263	~	Spigot Handle Assembly	45	538335	2	Nut Hex 1/4-20 x 7/16 Stl Zp
13	644094	2	Screw Cap 1/4-20 x 1/2 Soc Hd	46	647658	4	Screw Mach 10-24 x 3/8 Rd Hd
14	482004	_	Knob	47	1147176	2	Door Stud
15	M820172	As Redd	Adhesive Loctite 242-31	48	538359	2	Nut Hex Jam 3/8-16 x 9/16 SS
16	718565	~	Switch Toggle	49	295112	2	Contactor Magnetic 3 Pole
17	766948	~	Washer Shakeproof 10 Zinc	20	647641	4	Screw Mach 10-24 x 1/4 Rd Hd
18	156201	~	Bezel	51	732010	_	Terminal Block
19	718868	~	Switch Limit Single Pole	52	647529	_	Screw Mach 8-32 x 1/2 Rd Hd Ph
20	1170693	_	Bracket, Fine Pot Adj.	53	618157	_	Relay Motor Start
21	718537	_	Switch, Limit 15 Amp, 1-Pole	54	231084	_	Capacitor Run 30MFD @ 370 VAC
22	1110835	—	Actuator Arm - Wide Paddle	22	231079	_	Capacitor Start 145-174 MFD
23	647472	2		26	2156689	2	Capacitor Bracket (2.0 Dia.)
24	692209	2	Spacer .194 ID x 11/16 Lg. Nylon	22	732016	_	Terminal Board
25	538267	2	Nut Hex #6-32 Nylock Sstl	28	524091	2	Mount Adhesive Back 1 x 1 Plastic
26	521547	_	Module, Membrane Switch	29	521546	_	Module, Power Supply, 230V
27	718866	_	Switch, Membrane Strip	09	521660	_	Logic Board
28	2158189	~	Switch Mounting Plate	61	524087	7	Mount Dual Lock Circuit Spacer
29	521216	_	Cover Membrane Switch Housing	62	647409	_	Screw Mach 6-32 x 1/2 Pan Hd
30	521215	~	Housing, Membrane Switch Black	63	223015	က	Bushing Snap 1-1/8 Mtg Hole
31	649076	4	Screw Tap 8-32 x 3/8 Pan Hd Ph	64	430611	_	Harness WMP08E2T
32	766940	4	Washer Shakeproof 8 Zinc Plate	65	628007	2	Rivet 1/8 Dia. x .232 Lg. Steel
33	647393	2	Screw Mach 6-32 x 3/8 Rd Hd Ph				



Stoelting P/N Qty Description	324106 1 Decal-Caution Wiring Mat'l	9 As Redd	~	741505 1 Screwdriver, Tool Alignment	~	324594 1 Decal-Attention Heat Sensitive	714003 17 Ft. Strip, 3/8 Wide Cork/Rubber	_	324593 1 Decal, Power	←	_	3177699 1 Door Assembly	-	744276 1 Drain Tray, Hooded	396243 1 Gasket, Freezer Base	1158317 1 Rod, Gasket Connecting	4 Leveler Adjustable	538363 4 Nut	744260 1 Drip Tray	215061 2 Plug, Bumper	744271 1 Tray Insert, Drip	
<u>Item</u>	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	
Description	Left Side Panel	Right Side Panel	Standoff	Screw, Self Tapping #10	Back Panel	Screw, Mach 10-24 x 3/8 Trs Hd	Header Panel	Plastic Tubing 3/8 ID Nalgene #380	Panel, Lower Front	Clip, Refrigerator	Model I.D. Plate	Decal, Cleaning Instruction	Decal, Adequate Vent.	Dot, Hook	Filter	Plastic Envelope	Decal, Wired According to	Wiring Diagram	Decal, Factory Settings	Decal, Danger Electric Shock Hazard	Decal, Caution Hazardous Moving Parts	
Oty	_	_	7	2	_	2	~	4.0 ln.	~	2	_	~	7	4	~	~	~	~	~	4	2	•
Stoelting P/N	3177578	3177579	701002	649000-39	3177580	647653	3177583	756079	3177576	266076		324509	324584	114068	368140	130000	324566	4177551-WD	1157919	324105	324107	0000
<u>Item</u>	_	2	က	4	2	9	7	8	<u>ර</u>	10	7	12	13	14	15	16	17	18	19	20	21	0



WARRANTY SOFT SERVE / SHAKE FREEZERS

1. <u>Scope</u>:

Stoelting, LLC warrants to the first user (the "Buyer") that the freezer cylinders, hoppers, compressors, drive motors, speed reducers, auger and auger flights of Stoelting soft serve / shake freezers will be free from defects in materials and workmanship under normal use and proper maintenance appearing within five (5) years, and that all other components of such equipment manufactured by Stoelting will be free from defects in material and workmanship under normal use and proper maintenance appearing within twelve (12) months after the date that such equipment is originally installed.

2. Disclaimer of Other Warranties:

THIS WARRANTY IS EXCLUSIVE; AND STOELTING HEREBY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.

3. Remedies:

Stoelting's sole obligations, and Buyer's sole remedies, for any breach of this warranty shall be the repair or (at Stoelting's option) replacement of the affected component at Stoelting's plant in Kiel, Wisconsin, or (again, at Stoelting's option) refund of the purchase price of the affected equipment, and, during the first twelve (12) months of the warranty period, deinstallation/reinstallation of the affected component from/into the equipment. Those obligations/remedies are subject to the conditions that Buyer (a) signs and returns to Stoelting, upon installation, the Checklist/Warranty Registration Card for the affected equipment, (b) gives Stoelting prompt written notice of any claimed breach of warranty within the applicable warranty period, and (c) delivers the affected equipment to Stoelting or its designated service location, in its original packaging/crating, also within that period. Buyer shall bear the cost and risk of shipping to and from Stoelting's plant or designated service location.

4. Exclusions and Limitations:

This warranty does not extend to parts, sometimes called "wear parts", which are generally expected to deteriorate and to require replacement as equipment is used, including as examples but not intended to be limited to o-rings, auger seals, auger support bushings and drive belts. All such parts are sold

AS IS.

Further, Stoelting shall not be responsible to provide any remedy under this warranty with respect to any component that fails by reason of negligence, abnormal use, misuse or abuse, use with parts or equipment not manufactured or supplied by Stoelting, or damage in transit.

THE REMEDIES SET FORTH IN THIS WARRANTY SHALL BE THE SOLE LIABILITY STOELTING AND THE EXCLUSIVE REMEDY OF BUYER WITH RESPECT TO EQUIPMENT SUPPLIED BY STOELTING; AND IN NO EVENT SHALL STOELTING BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER FOR BREACH OF WARRANTY OR OTHER CONTRACT BREACH, NEGLIGENCE OR OTHER TORT, OR ON ANY STRICT LIABILITY THEORY.